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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,363	01/16/2004	Brad Benson	200310509-1	9897
22879	7590 09/21/2005	EXAMINER		INER
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD			NGUYEN, HOA CAO	
INTELLECTUAL PROPERTY ADMINISTRATION			ART UNIT	PAPER NUMBER
FORT COLLI	NS, CO 80527-2400	2841		· · · · ·

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/759,363	BENSON, BRAD	(m)
Office Action Summary	Examiner	Art Unit	·
	Hoa C. Nguyen	2841	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence addr	ress
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the mail of the part of the mail of the mail of the part of the p	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a not will apply and will expire SIX (6) MOI ute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 16	January 2004.		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ The	nis action is non-final.		
3) Since this application is in condition for allow	•		nerits is
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.I	). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-19</u> are subject to restriction and/o	or election requirement.		
Application Papers	•		
9)☐ The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) a	ccepted or b)□ objected to	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawing	g(s) is objected to. See 37 CFR	R 1.121(d).
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTC	)-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	•		
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in A	Application No	
<ol><li>Copies of the certified copies of the pr</li></ol>	riority documents have beer	received in this National S	tage
application from the International Bure	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a li	ist of the certified copies no	received.	
Attachment(s)	🗂		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		Summary (PTO-413) (s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Informal Patent Application (PTO-	152)

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-5, drawn to a structure of a circuit board, classified in class 174, subclass 354.
  - II. Claims 6-11, drawn to a process of making a circuit board comprising circuit patterns with electroplating, classified in class 29, subclass 846.
  - III. Claims 12-19, drawn to a process of making a circuit board with contacting pads on circuit traces, classified in class 29, subclass 884.
- 2. The inventions are distinct, each from the other because:
- 3. Inventions II, III and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another method such that the electrical conductor does not have to be electroplated or made of copper and the opening does not have to be cut but drilled.
- 4. Inventions III and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed

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does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because it does not required the electroplating the electrical conductor for patentabilty. The subcombination has separate utility such as the electrical conductor is a metal film which does not have to be copper.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for each invention is not required for other inventions, restriction for examination purposes as indicated is proper.
- 6. A telephone call was made to the applicant's attorney, Mr James P. Hao, on 8 Septemper 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoa C. Nguyen whose telephone number is 571-272-8293. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hoa C. Nguyen 13 September 2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800